Antec 25
A Quarter Century of Quality and Innovation

Quiet computing

VP450 POWER SUPPLY

USER'S MANUAL

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VP SERIES
VP450 POWER SUPPLY

STRICTLY POWER

The VP450 is crafted for quality, performance and incredible value. This entry-level solution gives you everything you need in a power supply. No twinkly lights or glittery paint jobs: a 120 mm fan for effective and quiet cooling, dual +12V rails for amazingly stable power and heavy-duty protection circuitry for peace of mind, no matter how demanding your system. And it comes with all the assurance of Antec's AQ2 Antec Quality 2 year limited warranty. All the features, none of the waste: for builders that are strictly business, the VP450 is strictly power.

STANDARDS AND FEATURES

The connectors and power specifications of the VP450 PSU are all compatible with ATX12V v2.3 and EPS12V v2.91 specifications. The VP450 also features 450 watts of Continuous Power, the actual stable power a PSU can output continuously at maximum load level.

SYSTEM PROTECTION

A variety of industrial-grade safety circuitry will help protect your computer: OVP (Over Voltage Protection), SCP (Short Circuit Protection), OPP (Over Power Protection) and OCP (Over Current Protection). Sometimes the PSU will "latch" into a protected state. You will need to power off the PSU and clear the fault before it will function again. There are no user-replaceable fuses in your VP450.

POWER OUTPUT & CONNECTORS

The VP450 power supply distributes power on separate rails. Some rails require a minimum load in order to run. To see the output capacity and regulation for each different voltage, see Table 1. A list of all available power connectors can be found in Table 2.

TABLE 1

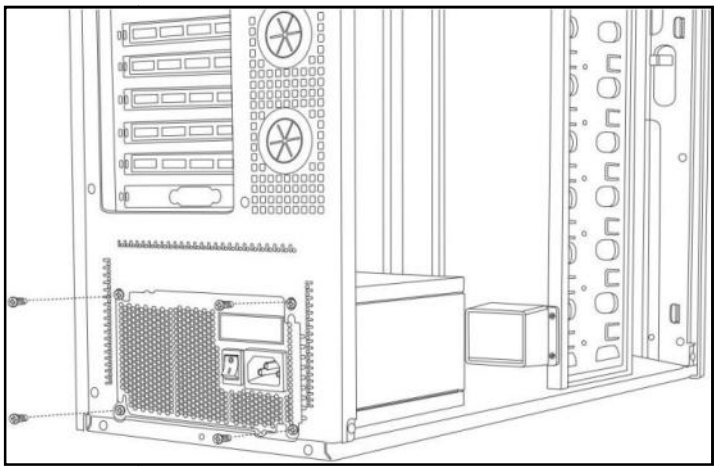
Output Voltage	Load Max.	Regulation	Ripple & Noise
+3.3V	24A	±5%	< 50 mV
+5V	15A	±5%	< 50 mV
+12V1	18A	±5%	< 120 mV
+12V2	18A	±5%	< 120 mV
–12V	0.3A	±10%	< 120 mV
+5VSB	2.5A	±5%	< 50 mV

TABLE 2

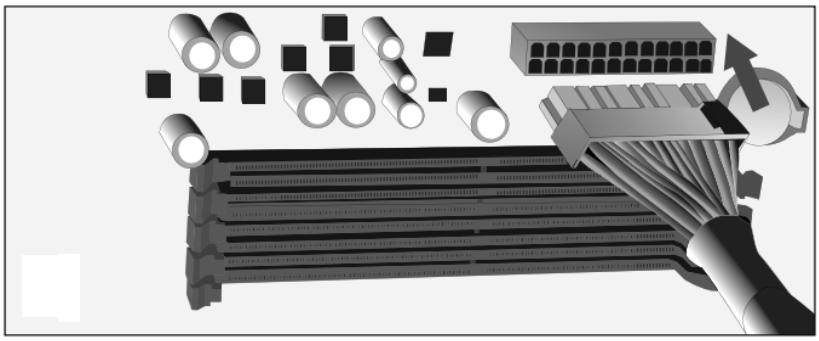
Quantity	Connector	Description	Rail
1		24(20 + 4)-pin main connector	12V1
1		8(4 + 4)-pin ATX12V / EPS12V	12V2
1		6-pin PCI-E	12V1
4		SATA connectors	12V1
4		Molex connectors	12V1
1		Floppy	12V1

INSTALLATION:

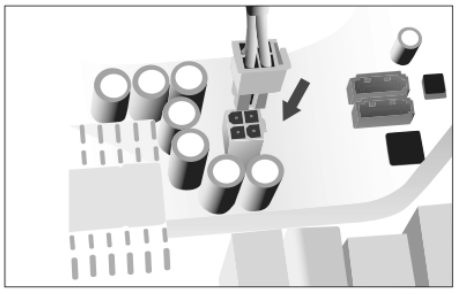
1. Install the VP450 PSU into either the top or bottom of your case with the four screws provided. Refer to your case manual if you are unsure where the power supply should be installed.

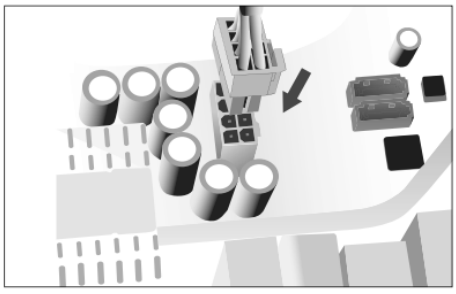


2. Connect the 24(20+4)-pin main power connector to your motherboard. If your motherboard uses a 20-pin connector, detach the 4-pin attachment on the 24-pin connector.
   Note: The detachable 4-pin section cannot be used in place of a 4-pin +12V connector.



3. Connect the 8-pin or 4+4-pin connector for the CPU. If your motherboard has an 8-pin socket with a cover on some of the openings, we recommend that you remove the cover and use the 8-pin connector.
   Note: Please also refer to your motherboard user's manual for any special instructions.



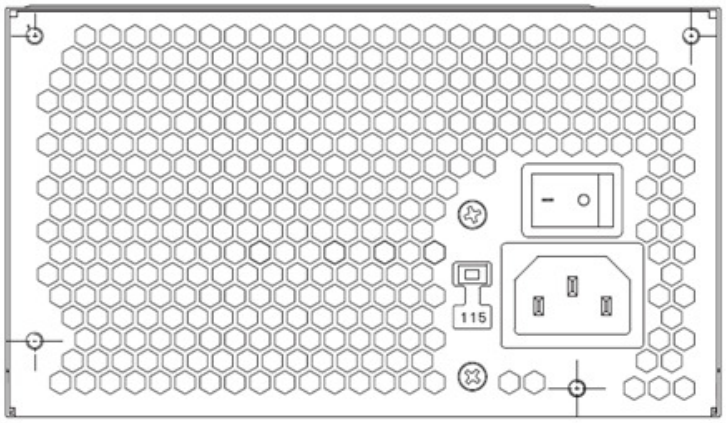


4. Connect the 6-pin PCI-E connector to your graphics card (if applicable).

5. Connect all Molex/SATA connector(s) to your hard drives, optical drives (CD/DVD/BluRay™) and other accessories. Please note that some devices will use either the older 4-pin Molex connectors, while others will use the newer 15-pin SATA connector. 4-pin Molex connectors have two black wires, a yellow, and a red. The SATA connector has an additional orange power wire.

6. Connect your floppy drive (if present) using the supplied FDD connector shown in Table 2.

7. When you have all the connections secured, connect the AC power cord to the power supply AC inlet, making sure the use the heavy-duty cord supplied with your VP450. Turn the switch on the PSU to the "|" position.



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